# Information Therapy: Prescribing Information to Manage Disease

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# If you want a smarter system... Build a smarter patient

Passive Active

Financial Planning...Consumer Goods...Travel...

# What makes it so hard to help patients get smarter?

- Evidence-based medicine not practiced
- Practice variation
- Poor understanding of options
- Distrust/poor communication
- Few tools
- Few incentives

### The "x" in Medicine

- Rx =Medications
- Sx = Symptoms
- Hx = History
- Dx = Diagnosis
- Tx = Treatment



Ix = Information Therapy

# "Information Therapy"

The <u>prescription</u> of specific evidence based medical information

to a specific patient, caregiver, or consumer

at just the right time to help them make a specific health decision or behavior change

as part of the process of care

# "Say Again?"



"...between half and four-fifths of all medical information... was forgotten instantly by the patient."



# JAMA Study: Doctors Awful at Involving Patients



Only 9% of decisions are rated as "informed decisions."

JAMA, Vol.282 No.24, December 22/29, 1999

# We Need Improved Communication

- Stone age technology: mouth to ear
- Information prescriptions:
  - Evidence-based
  - Documented
  - Lasting
- Better outcomes, higher satisfaction and less time expended, saved \$\$\$

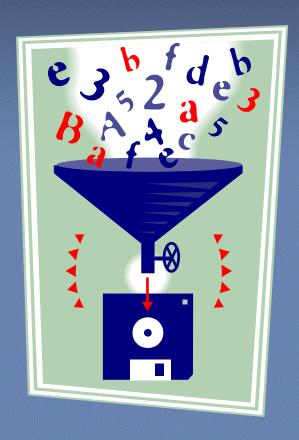
# Information Therapy Information. Decisions. Support



The right information to the right person at the right time.

# The Right Information

- Evidence-based
- Referenced and up-to-date
- Free from commercial bias
- Reviewed by experts
- Decision-focused
- Consumer friendly



# The Right Person

The Patient

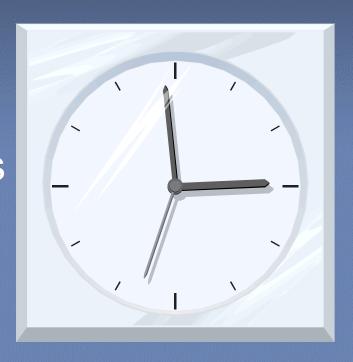
The Family

The Caregiver



# The Right Time (Moments in Care)

- Pre-Diagnosis
- Initial Treatment
- Worsening/Complications
- Stable/Optimizing
- End-of-Life Care



#### How Ix Works

- Information triggers
  - > ICD-9, CPT-4, SNOMED
- Moments in care
  - Diagnosis, Treatment, Discharge
  - Information prescription

# Physician Prescribed: The "Ideal" Application

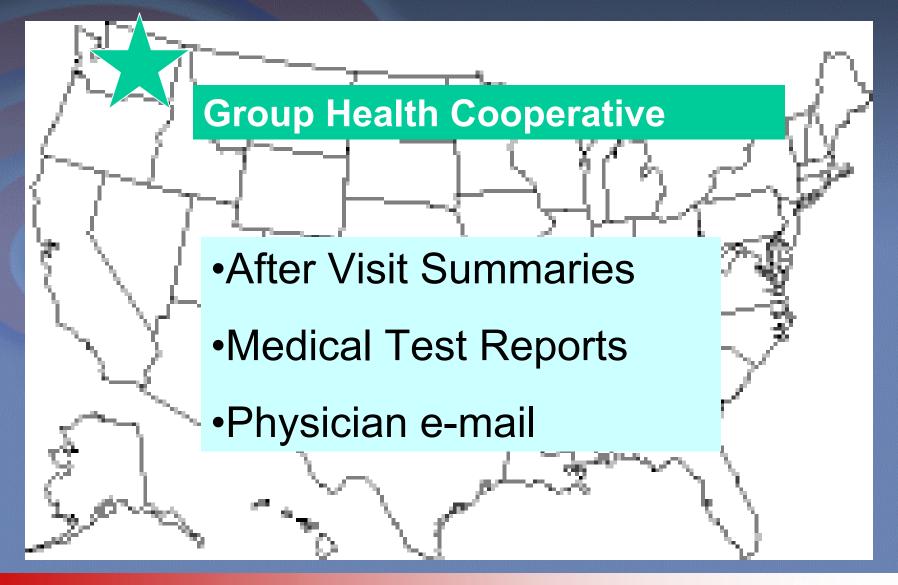


From EMR... to patient portal



Becoming a part of every doctor visit

### Ix in Action



# 9 Ix Apps in 19 Minutes: Ix all Along the Healthcare Journey

Prevention

Disease Self-management

Shared Decision-making

Life Events

## #1: Ix for preventive services



- Seasonal
  - Flu shots
  - Allergy Prep.
- Age/sex-specific
  - Colon Cancer Screen
  - Cholesterol Check
  - Immunizations
- Condition-Specific
  - Depression
  - Diabetes

Clinical Area/Specialty:	General Practice ¢	
What do you want to discuss with your provider?	General Health Concerns Unusual Pains / Semptoms Prescriptions Routine Checkup	
Reason for appointment or primary complaint:	solenescopy *	
Send a Reminder	Check method(s) in which you wish to receive reminder  Mail Phone E-mail	
Attach Document:	Attach Document	



#### & Printer-Friendly



#### Should I have a sigmoidoscopy or a colonoscopy to screen for colorectal cancer?

#### Introduction

This information will help you understand your choices, whether you share in the decision-making process or rely on your doctor's recommendation.

#### Key points in making your decision

Screening tests for colorectal cancer may detect colon polyps or cancer Detecting colon polyps is important because certain types (adenomatous polyps) are more likely to develop into colorectal cancer. Finding and removing colon polyps reduces your risk of developing colorectal cancer. Consider the following when making your decision:

#### Reasons to have a sigmoidoscopy Reasons to have a colonoscopy A sigmoidoscopy requires less preparation than does a colonoscopy. The bowel-cleaning preparation for colonoscopy. especially the strong laxatives taken the day before, can

#### Colonoscopy is the only screening method that can both detect and remove polyps in the entire colon during the same exam. A normal colonoscopy exam (no polyps are found) may

### **Business Case for Prevention Ix**



- Increase Revenue
  Attract/keep patients
- Improve Outcomes

### #2: Ix for Visit Prep

- Scheduling system triggered: reason for visit
  - Home treatment
  - Symptoms/history
  - Meds list?
  - Clothing for exam
  - What to expect
  - 3 main questions

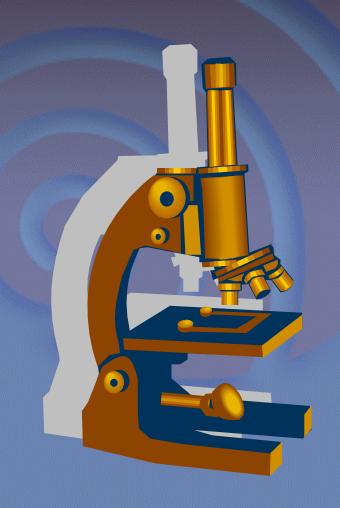


## **Business Case for Visit Prep**



- Reduces no shows
- Speeds throughput
- Increases satisfaction
- Improves outcomes
- Avoids revisits/call backs

### #3: Ix with Test Orders



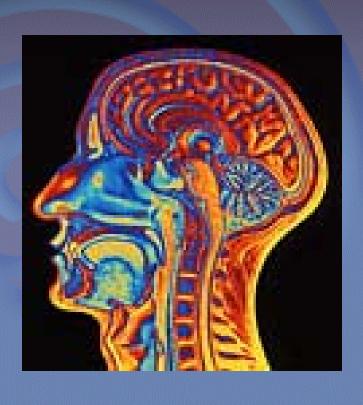
- CPT triggered with test order
  - Meals prep?
  - Clothing prep?
  - What to expect
  - Risks and benefits
  - Decision guide?

## Business Case for Lab Prep

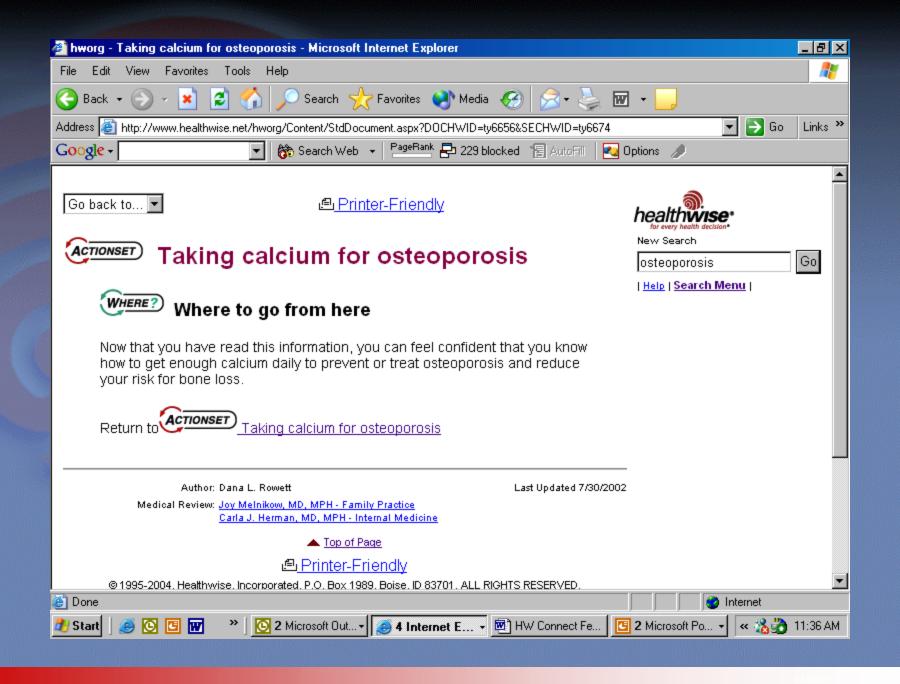


- Reduces no shows
- Reduces re-tests
- Speeds throughput
- Increases satisfaction
- Improves outcomes
- Reduces phone calls

# #4: Ix with Testing Results



- CPT triggered from test report
  - Results
  - Interpretation
  - Links to appropriate disease management
- Automatic or on clinician release



### Business Case for Lab Results Ix



- Reduces test results phone tag
- Reduces call-back questions
- Increases satisfaction
- Improves outcomes
- Reduces malpractice risks

# #5: Ix with every medication prescription



- Triggered by eprescription drug code
  - Decision guide
  - Buying guide/generics
  - Taking instructions
  - Contraindications/side effects
  - Adverse reactions
  - Drug-specific patient safety tips

#### Ix for Medications

Medications		
Name	Instructions	Provider
AZMACORT AERS 100 MCG/ACT IN	2 Puffs Twice A Day	Pam F. Sutter, MD
LISINOPRIL TABS 10 MG OR	1 PO QD	Pam F. Sutter, MD
ALBUTEROL AERS 90 MCG/ACT	2 Puffs 3-5x/d Until No Cough For 2 Davs	Pam F. Sutter, MD
Topic:	albuterol	

Cli<mark>ck</mark> to add notes...

Takes you here

A click here

Pronunciation: al BYOO teh rall

Brand: Proventil, Proventil Repetabs, Ventolin, Volmax

What is the most important information I should know about albuterol?

Seek medical attention if you notice that you require more than your usual or more than the maximum amount of any asthma medication in a 24-hour period. An increased need for medication could be an early sign of a serious asthma attack.

#### What is albuterol?

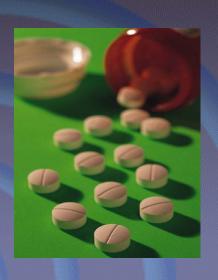
Albuterol works by relaxing muscles in the airways to improve breathing.

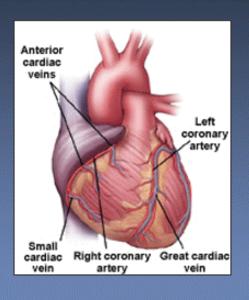
## Business Case for Drug Ix



- Increase satisfaction
- Speeds throughput
- Aids adherence
- Improve Outcomes

## #6: Ix to improve adherence





#### Antibiotic Use

- Avoid unneeded use
- Increase adherence once started

# Heart Rx: aspirin, beta blockers, etc

- Reinforce importance
- Provide periodic decision guide

### Business Case for Adherence Ix



- Satisfaction
- Outcomes
- Quality measures

#### #7: Ix with After Visit Summaries



- Vital signs
- Diagnosis + links
- Tests + links
- Drugs + links
- Home treatment
- When to call

#### **Business Case for Visit Summaries**



- Attract/keep patients
- Reduce calls in
- Reduce calls out
- Reduce malpractice risks
- **Improve Outcomes**

## #8: Ix to disease management



- Triggered by ICD9
  - Referral to disease management classes
  - Web-based selfmanagement groups
  - Recruitment into population-based disease management
  - Automatic or on Clinician release

# Business Case for Disease Management Ix



- Attract/keep patients
- Improve Outcomes
- Improve quality measures

### #9: Ix to Wellness



- Triggered by ICD9 targeted behavior change programs
- Personally tailored based on individual assessments
- Focused on key behaviors to manage disease

## 5-step Ix Infrastructure

- Member portal with secure messaging
- Content: Prescription-strength
- Triggers from real time or near time data
  - Physician in clinic
  - (EMR, CPOE, Scheduling System, etc.)
- E-mail addresses

Messaging system (rules and blocking)

# Are Patients Ready? Consider this:

- Elevators and gas pumps
- Bank deposits/withdrawals
- Airline tickets/hotel reservations
- Stock market buys and sell orders

A transformation of convenience and efficiency

# What Your Physicians Get



- Saved time
- Increased patient satisfaction
- Malpractice protection
- Better patient compliance and outcomes

### Three Predictions

Ix with every medical test and Rx prescription

Ix with every clinic visit

Ix at every hospital bedside

# www.healthwise.org

www.informationtherapy.org

Many thanks.

### Ix Demo

http://demo.healthwiserd.net/ixdemo03